ABSTRACT

A biological growth inhibition factor assay method includes: a first step of mixing a photosynthetic sample, with an aqueous solution sample to prepare a test measurement solution, letting the test measurement solution stand, and then after illuminating light onto the test measurement solution for a predetermined illumination time, measuring the light amount of the delayed fluorescence that is emitted; a second step of mixing the photosynthetic sample with a standard sample, in which biological growth inhibition factors are not present, to prepare a standard measurement solution, letting the standard measurement solution stand, and then after illuminating light onto the standard measurement solution for a predetermined illumination time, measuring the light amount of the delayed fluorescence that is emitted; and a third step of computing assay values based on the light amounts of delayed fluorescence, respectively measured in the first step and the second step, and determining a comparison value of the assay values to assay biological growth inhibition factors. A biological growth inhibition factor assay method that enables analysis of a wide range of inhibition factors in a short time is thereby realized.